

MATERIAL SAFETY DATA SHEET (MSDS)

Potassium Fluorotitanate (Potassium Hexafluorotitanate) | Prepared in accordance with the Globally Harmonised System (GHS Rev. 9) and REACH Regulation (EC) No. 1907/2006 Annex II.

SECTION 1: IDENTIFICATION OF THE SUBSTANCE AND OF THE SUPPLIER

Product Name	Potassium Fluorotitanate (Potassium Hexafluorotitanate)
C.A.S. Number	16919-27-0
Product Category	Metal Treatment & Electroplating Chemicals
Product Group	Flux & Grain Refiners
Grade / Standard	≥99% Technical
Identified Uses	Aluminium grain refiner, flux additive. Industrial and professional use.
Uses Advised Against	Any application not described above without prior written confirmation from the supplier.
Supplier	Scapex Exports Pvt. Ltd., 830, 8th Floor, Sun Gravitas, Times of India Road, Shyamal, Ahmedabad – 380015, Gujarat, India
Telephone / E-mail	+91 9925522674 info@scapexexports.com
Emergency Telephone	+91 9925522674 (Mon–Sat, 09:30–18:30 IST)
MSDS Number	SCX/MSDS/76B2AB

SECTION 2: HAZARDS IDENTIFICATION

GHS Classification	Corrosive substance
Signal Word	DANGER
Pictograms	Corrosion, Exclamation mark, Environment

Hazard Statements

- H302 — Harmful if swallowed.
- H314 — Causes severe skin burns and eye damage.
- H317 — May cause an allergic skin reaction.
- H410 — Very toxic to aquatic life with long lasting effects.

Precautionary Statements

- P101 If medical advice is needed, have product container or label at hand.
- P102 Keep out of reach of children.
- P262 Do not get in eyes, on skin, or on clothing.
- P260 Do not breathe dust / fume / mist / vapours / spray.
- P280 Wear protective gloves, protective clothing, eye protection and face protection.
- P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
- P310 Immediately call a POISON CENTER or doctor.
- P264 Wash hands thoroughly after handling.
- P302+P352 IF ON SKIN: Wash with plenty of water.
- P337+P313 If eye irritation persists: Get medical advice / attention.
- P273 Avoid release to the environment.
- P391 Collect spillage.
- P501 Dispose of contents and container in accordance with local regulations.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Identity	Potassium Fluorotitanate (Potassium Hexafluorotitanate)
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C.A.S. Number	16919-27-0
Concentration / Grade	≥99% Technical
Impurities	No impurities present at concentrations that alter the classification of the product.

SECTION 4: FIRST-AID MEASURES

Inhalation	Remove the casualty to fresh air and keep at rest in a position comfortable for breathing. If breathing is difficult, give oxygen. If breathing has stopped, give artificial respiration. Obtain medical attention.
Skin Contact	Remove contaminated clothing and shoes immediately. Wash the affected area with plenty of soap and water for at least 15 minutes. Obtain medical attention if irritation develops or persists.
Eye Contact	Rinse immediately with plenty of water for at least 15 minutes, holding the eyelids open. Remove contact lenses if present and easy to do. Obtain immediate medical attention.
Ingestion	Do NOT induce vomiting. Rinse the mouth with water. Never give anything by mouth to an unconscious person. Obtain immediate medical attention and show this Material Safety Data Sheet (MSDS).
Note to Physician	Treat symptomatically. No specific antidote is known.

SECTION 5: FIRE-FIGHTING MEASURES

Suitable Extinguishing Media	Water spray, dry chemical powder, carbon dioxide (CO ₂) or alcohol-resistant foam.
Unsuitable Extinguishing Media	High-pressure water jet.
Specific Hazards	Thermal decomposition may generate irritating and toxic gases. Containers may rupture when heated.
Advice for Fire-fighters	Wear self-contained breathing apparatus and full protective clothing. Prevent fire-fighting water entering drains or watercourses.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions	Evacuate unnecessary personnel. Ensure adequate ventilation. Wear the personal protective equipment described in Section 8. Eliminate all ignition sources where the product is flammable.
Environmental Precautions	Prevent entry into drains, sewers, surface water and groundwater. Notify the relevant authorities if release to the environment occurs.
Containment & Cleaning	Contain the spill with an inert absorbent (dry sand, earth or vermiculite). Collect into a labelled, closed container for disposal. Do not use combustible absorbents such as sawdust where the product is an oxidiser. Ventilate the area and wash the spill site after material pick-up.

SECTION 7: HANDLING AND STORAGE

Precautions for Handling	Use only in well-ventilated areas. Avoid contact with skin, eyes and clothing. Avoid the formation and inhalation of dust, mist or vapour. Do not eat, drink or smoke in the work area. Wash thoroughly after handling.
Conditions for Storage	Store in the original, tightly closed container in a cool, dry, well-ventilated place away from direct sunlight and heat. Keep away from incompatible materials listed in Section 10. Store in a bunded area where liquids are held.
Packaging Materials	Use only the original packaging or an equivalent material approved for this product.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limits	Refer to the national occupational exposure limits applicable in the country of use. Where no limit is established, maintain airborne concentrations as low as reasonably practicable.
Engineering Controls	Provide local exhaust ventilation at points of dust, mist or vapour generation. Provide eyewash stations and safety showers close to the work station.
Eye / Face Protection	Chemical safety goggles to EN 166 / IS 5983. A face shield is required where splashing is possible.
Skin Protection	Chemical-resistant gloves to EN 374 (nitrile or butyl rubber, thickness and breakthrough time selected for the task). Chemical-resistant apron, suit and boots as required by the task.
Respiratory Protection	Where ventilation is insufficient, use an approved respirator with a particulate filter (P2/P3) for dusts or an appropriate vapour cartridge for solvents.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White crystalline powder
Odour	Characteristic
Physical State	Solid
pH	See product specification
Melting / Freezing Point	See product specification
Boiling Point / Range	See product specification
Flash Point	Not applicable
Relative Density	See product specification
Solubility	See product specification
Vapour Pressure	See product specification
Purity / Assay	≥99% Technical

SECTION 10: STABILITY AND REACTIVITY

Reactivity	Stable under the recommended handling and storage conditions.
Chemical Stability	Stable under normal ambient conditions.
Possibility of Hazardous Reactions	None known under recommended conditions of use.
Conditions to Avoid	Heat, direct sunlight, moisture, ignition sources and mechanical damage to packaging.
Incompatible Materials	Strong bases or strong acids (as applicable to this product), oxidising agents, reactive metals such as aluminium, zinc and magnesium.
Hazardous Decomposition Products	Toxic and corrosive fumes, oxides of carbon, sulphur, nitrogen or halogens as applicable.

SECTION 11: TOXICOLOGICAL INFORMATION

Likely Routes of Exposure	Inhalation, skin contact, eye contact and ingestion.
Acute Toxicity	Product-specific LD50/LC50 data are available from the manufacturer on request.
Symptoms and Effects	Harmful if swallowed, Causes severe skin burns and eye damage, May cause an allergic skin reaction.
Carcinogenicity	Not classified as carcinogenic.

Reproductive Toxicity	Not classified for reproductive toxicity.
Germ Cell Mutagenicity	Not classified.
STOT — Single / Repeated Exposure	Not classified.

SECTION 12: ECOLOGICAL INFORMATION

Aquatic Toxicity	Very toxic to aquatic organisms — do not allow release to the environment.
Persistence and Degradability	Data not available for this product. Assess against local discharge consent limits before release.
Bioaccumulative Potential	Data not available.
Mobility in Soil	Data not available.
Other Adverse Effects	Do not allow the product to enter drains, sewers or watercourses.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Treatment	Dispose of the product and its container through an authorised waste treatment or disposal facility, in accordance with local, state and national regulations. Do not discharge to drains or the environment.
Contaminated Packaging	Empty containers retain product residue. Triple-rinse where appropriate and offer for approved reconditioning or disposal. Do not re-use containers for other purposes.

SECTION 14: TRANSPORT INFORMATION

UN Number	UN 3260
UN Proper Shipping Name	POTASSIUM FLUOROTITANATE (POTASSIUM HEXAFLUOROTITANATE)
Transport Hazard Class	8
Packing Group	III
Marine Pollutant	Yes
IMDG / IATA / ADR	Classified as shown above. Confirm the current entry and any segregation requirements against the edition of the IMDG / IATA code in force at the time of shipment.
Special Precautions	Transport in closed, correctly labelled and UN-approved packaging where required by the classification.

SECTION 15: REGULATORY INFORMATION

Classification System	Globally Harmonised System (GHS Rev. 9); CLP Regulation (EC) No. 1272/2008.
EU REACH	Registration status is held by the manufacturer. A REACH statement is available from Scapex Exports on request.
India	Manufacture, Storage and Import of Hazardous Chemicals Rules; Chemical Accidents (Emergency Planning, Preparedness and Response) Rules, as applicable.
Chemical Safety Assessment	A chemical safety assessment has not been carried out by Scapex Exports for this product.

SECTION 16: OTHER INFORMATION

Basis of Classification	Classification in Section 2 has been assigned on the basis of the chemical class of the product and the standard commercial grade supplied. Where the manufacturer of a particular batch publishes a different classification, the manufacturer's classification governs.
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Full Text of H-statements	H302: Harmful if swallowed.; H314: Causes severe skin burns and eye damage.; H317: May cause an allergic skin reaction.; H410: Very toxic to aquatic life with long lasting effects.
Revision	Revision 1 — first issue
Prepared by	Quality Assurance, Scapex Exports Pvt. Ltd.

Disclaimer. The information in this Material Safety Data Sheet (MSDS) is provided in good faith and is believed to be correct at the date of issue. It relates only to the specific material identified and is not a specification. It does not constitute a warranty, express or implied, of merchantability or fitness for a particular purpose. It is the responsibility of the user to satisfy themselves as to the suitability and completeness of this information for their own particular use, and to comply with all applicable laws and regulations.